University of Minnesota Duluth

A COLLABORATIVE PROJECT BETWEEN:

The UMD College of Education and Human Services Profession and Swenson College of Science and Engineering.

Community College Teaching Certificate

The Community College Teaching Certificate program will provide an opportunity for STEM discipline students to learn how to be an effective teacher in a college setting and provide the foundation for those who wish to pursue a Minnesota teaching license grades 9-12.

THE TIME IS NOW.....

EDSE 5000 **Introduction to Teaching (2 cr)** Introduction to Teaching would provide an brief overview of learning theory, student and teacher expectations, development of a syllabus, lesson planning, goals, rubrics, assignments, student evaluation/assessment, how to submit grades, online teaching using electronic course platforms, graduate assistant teaching issues, classroom management and other topics pertinent to teaching adult learners. This class would not be taken by undergraduate students. The graduate students would complete a syllabus for their graduate assistantship teaching assignment and practice teaching a micro lesson prior to the semester beginning. The online teaching component would add to the needed skills of today's teachers in an academic setting whether high school or college level.

EDSE 5204 **Designing Learning Environments and Lessons (3 cr)** Topics will include: Characteristics of effective teachers, various developmentally appropriate teaching strategies, design of lessons using UBD framework, designing effective learning environments, goals and action plans, site data, collaborative review of student work, collaborative planning, integrated and exploratory curriculum, content standards, technology, observation skills, and readiness. The graduate students would be required to keep a reflective journal of their teaching assignments for discussion in an online discussion group.

EDSE 5501 **Adolescent Development and Learning Theory (3 cr)** Principles of psychology applied to teaching; examination of adolescent growth and development; classroom management, and application of transformational learning theory. Graduate students would compare and contract adolescent development and learning theory with adult development and adult learning theory.

EDSE 5XXX (see note) Special Methods Course (3-5 cr) Historical development of science education. Goals and purposes of science education in secondary schools; methods and materials; evaluation procedures; current trends. Graduate students would be required to read and compare adolescent learning to adult learning of science education.

EDSE 5525 **Assessment for Secondary Education (3 cr)** An exploration of topics in responsive and responsible assessment of student learning. Topics include types and appropriate uses of classroom assessment strategies, large-scale and high stakes testing, backwards design, rubrics, checklists, and other evaluative tools and techniques. The graduate students would complete a project using their own course to develop a model of assessment to measure adult learning.